## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/981,002 Examiner: Christopher M BABIC

Group Art Unit: 1637

Filed: October 17, 2001

Customer No.: 26263
Title: DNA POLYMERASES WITH

ENHANCED LENGTH OF PRIMER

Now issued patent 7,452,665

**EXTENSION** 

Docket No.: 60019640-0013

Applicant: Wayne BARNES

January 13, 2009

## FILED ELECTRONICALLY VIA EFS-WEB

Commissioner for Patents ATTN: Certificate of Correction Branch P.O. Box 1450 Alexandria, VA 22313-1450

## **REQUEST FOR CORRECTION UNDER 37 CFR §1.323**

Sir:

Applicant respectfully requests that the PTO enter into the permanent record a correction of an error in the claims of the above-referenced patent.

Applicant submits that the claims were inadvertently filed out of order, with resulting incorrect dependencies. The form PTO/SB/44 submitted herewith corrects that error.

The corrected claims should read as follows.

- 1. A kit for the synthesis of a polynucleotide, said kit comprising a mixture comprising:
  - (a) a first DNA polymerase, wherein said first polymerase possesses 3'-5' exonuclease activity selected from the group consisting of Archaebacterial DNA polymerases, and

(b) a second DNA polymerase, wherein said second polymerase lacks 3'-5'

exonuclease activity selected from the group consisting of thermostable DNA

polymerases lacking 3'-5' exonuclease activity;

wherein the ratio of DNA polymerase activity of the first DNA polymerase to the

DNA polymerase activity of the second DNA polymerase is from about 1:100 up to

about 1:600.

2. A kit according to claim 1, wherein said second DNA polymerase comprises *Thermus* 

aquaticus DNA polymerase.

3. A kit according to claim 2, wherein said *Thermus aquaticus* DNA polymerase is selected

from the group consisting of wild-type Thermus aquaticus DNA polymerase and N-

terminal deleted forms of the same enzyme.

4. A kit according to claim 1, wherein said first DNA polymerase comprises Pyrococcus

furiosus DNA polymerase.

5. A kit according to claim 2, wherein said *Thermus aquaticus* DNA polymerase comprises

Klentaq-278 DNA polymerase.

An appendix including text of the claims as corrected, with insertions indicated by

underscoring and deletions indicated by double bracketing, is provided herewith. Applicant

submits herewith a credit card payment via EFS-Web for \$100, in accordance with 37 CFR

§1.20(a). The Commissioner is hereby authorized to charge any additional required fees or

refund any overpayment with regard to this patent to Deposit Account No. 19-3140.

Respectfully submitted,

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## **APPENDIX**

What is claimed is:

- 1. A kit for the synthesis of a polynucleotide, said kit comprising a mixture comprising:
  - (a) a first DNA polymerase, wherein said first polymerase possesses a 3'-5' exonuclease activity selected from the group consisting of Archaebacterial DNA polymerases, and
  - (b) a second DNA polymerase, wherein said second polymerase lacks 3'-5' exonuclease activity selected from the group consisting of thermostable DNA polymerases lacking 3'-5' exonuclease activity;
  - wherein the ratio of DNA polymerase activity of the first DNA polymerase to the DNA polymerase activity of the second DNA polymerase is from about 1:100 up to about 1:600.
- [[4]] <u>2</u>. A kit according to claim 1, wherein said second DNA polymerase comprises *Thermus* aquaticus DNA polymerase.
- [[2]] <u>3</u>. A kit according to claim [[1]] <u>2</u>, wherein said *Thermus aquaticus* DNA polymerase is selected from the group consisting of wild-type *Thermus aquaticus* DNA polymerase and N-terminal deleted forms of the same enzyme.
- [[3]] <u>4</u>. A kit according to claim 1, wherein said first DNA polymerase comprises *Pyrococcus furiosus* DNA polymerase.
- A kit according to claim 2, wherein said *Thermus aquaticus* DNA polymerase comprises Klentaq-278 DNA polymerase.